## **INTERNATIONAL SEARCH REPORT**

Interior No PCT/US2005/004015

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A. CLASSI IPC 7	FICATION OF SUBJECT MATTER H04B3/46 H04B3/48	-									
According to International Patent Classification (IPC) or to both national classification and IPC											
B. FIELDS	SEARCHED										
Minimum do IPC 7	ocumentation searched (classification system followed by classification $H04B$	on symbols)									
Documentat	tion searched other than minimum documentation to the extent that s	such documents are included	in the fields searched								
Electronic d	ata base consulted during the International search (name of data ba	se and, where practical, sea	rch terms used)								
EPO-In	ternal, INSPEC, WPI Data										
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT										
Category °	Citation of document, with indication, where appropriate, of the rel	evant passages	Relevant to claim No.								
A	EP 1 248 383 A (ALCATEL) 9 October 2002 (2002-10-09) abstract	141	1,6,7, 12-15,19								
	paragraphs '0005! - '0007!, '001 '0016!, '0021!, '0023!, '0024! '0027!, '0048!, '0050! - '0052! '0087!; figures 1-3,11	!, !,	·								
А	WO 02/087103 A (AWARE, INC) 31 October 2002 (2002-10-31) paragraphs '0007!, '0035!, '003	37!,	1,6,7, 12-15,19								
Α	WO 01/24482 A (TELCORDIA TECHNOLO INC) 5 April 2001 (2001-04-05) page 2, line 1 - page 3, line 7 page 4, line 5 - page 5, line 14 page 24, line 25 - page 28, line figures 11a,17a,17b	,	1,6,7, 12-15,19								
Furth	ner documents are listed in the continuation of box C.	X Patent family memb	ers are listed in annex.								
"A" docume consid "E" earlier diffing di "L" docume which i citation "O" docume other n	ant which may throw doubts on priority claim(s) or its cited to establish the publication date of another in or other special reason (as specified) and referring to an oral disclosure, use, exhibition or neans are the published prior to the international filing date but	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</li> <li>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>									
	actual completion of the international search  9 May 2005	Date of mailing of the international search report  30/05/2005									
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Name and m	nailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax. (+31–70) 340–3016	Authorized officer  Bossen, M									

## INTERNATIONAL SEARCH REPORT Information on patent family members

Interpolation No
PCT/US2005/004015

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
EP 1248383	Α	09-10-2002	EP _US	1248383 / 2002186760 /		09-10-2002 12-12-2002
WO 02087103	Α	-31-10-2002	WO US	02087103 / 2003002658 /		31-10-2002 02-01-2003
WO 0124482	А	05-04-2001	CA CA DE EP WO WO US US	2378839 / 2467862 / 60019320 I 1219097 / 0124491 / 0124482 / 6538451 I 6819744 I 6724859 I	A1 D1 A1 A1 A1 B1	05-04-2001 05-04-2001 12-05-2005 03-07-2002 05-04-2001 05-04-2001 25-03-2003 16-11-2004 20-04-2004